0.00

Memo

QC

Quality Control

										DQA:	Date:	<u>-</u> -
NCR: Yes	/ No				WORK ORDER NON-C	CON	FORN	/ANCE / UP		QA Closed:	Date:	
Work Order:			•		DISPOSITION				AGAINST DE	PARTMENT	/PROCESS	
Work Order.					Rework	1		Skid-tube	Crosstube		Water Jet	Engineering
Part No.					Scrap	1		Machining	Small Fab	Pro	d. Eng. Coor.	Quality
					Use-as-is	]	Therm	noforming	Finishing	Rec/Sto	re/Packaging	Other
NCR No.					Work Order Update	╛╽		Large Fab	Composite		Supplier	
		1	1	5	No control of the con	1	:a:a: ]	Λ.	tion.	Cian 9		
Root		۵.	۵.	i e	ption of work order update	i	itial		tion	Sign &	Varification	OC Inspector
Cause	Date	Step	Qty	•	or Non-conformance	Chie	ef Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data	-											
Equip/Tooling			ļ			:					,	
Operator												
Material			Ì									
Setup	]											
Other												
Process			·									
Supplier												
Training	]											
Unapproved						<u> </u>						
					F	AULT	CATE	GORY				

Positioned Wrong Countersink Heat Treat Mislabeled Other Cut Too Short Misread Power Loss/Surge Inspection Strip in Tube Drill Holes Offset Ripples in Bend Out of Calibration Drawing Torque Waves in Extrusion Turning Sequence Finish Out of Sequence Wave/Twist in Tube Folio **Outside Dimensions** 

Grain

Hardware

Maintenance

Inspection Incomplete

Instructions Incomplete/Unclear

Ovalized

Part Incorrect

Part Moved

Part Lost/Missing

Over/Under tolerance

Pressure/Forced

Weld

Temperature/Cure

Wrong Stock Pulled

General

Bend

Burrs

BOM/Route

Contamination

Broken/Damaged

**Landing Gear** 

Bending

Cracks

Cuffs

Crushed/Crimped.

Centre Not Concentric to O/S

NCR:	Yes	/	No

## MODE ODDED NON CONFORMANCE / LIDDATE

DQA: Date:

NCR: Y	es	/ No				WORK ORDER IN	OIN-COI	VFUKI	MANCE / OPD	AIC	QA Closed:	Date	:
						DISPOSITION				AGAINST DE	PARTMENT	PROCESS	
Nork Orde Part N	-			<del></del>		Rewo Scr	<b>—</b>		Skid-tube Machining	Crosstube Small Fab	Proc	Water Jet	Engineering Quality
NCR N	-					Use-as Work Order Upda	s-is	Therm	noforming Large Fab	Finishing Composite	4	re/Packaging Supplier	Other
Root					Descr	ription of work order upd	late	nitial	Actio	on	Sign &		
Cause		Date	Step	Qty		or Non-conformance	Cł	ief Eng	Descri	ption	Date	Verification	QC Inspector
oc/Data													
quip/Tooling											:		
perator	_												
/laterial							1						
etup	_		:										
ther													}
rocess	$\sqcup$						ļ						
upplier								:					
raining													
Inapproved			<u></u>										
					·		FAU	T CATE	GORY				
Landi	_					General	_	1 .		Γ-	٦	<u></u>	<b>-</b>
		Bending			-	Bend		Grain		-	Ovalized		Pressure/Forced
		Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa			Over/Under	<u> </u>	Temperature/Cure
	-	Cracks			L	Broken/Damaged		-4 `	on Incomplete		Part Incorre	<u> </u>	Weld
		Crushed/0	Crimped.		L	Burrs		4	ions Incomplete/U	nclear	Part Lost/Mi	issing	Wrong Stock Pulled
		Cuffs			L	Contamination	با	Mainte			Part Moved		
		Heat Trea	t			Countersink	3	Mislabe	led		Positioned V		<del></del>
		Inspection	n Strip in	Tube		Cut Too Short		Misread	i	<u></u>	Power Loss/	Surge	Other
		Ripples in	Bend			Drill Holes		Offset					
		Torque W	aves in E	xtrusio	n [	Drawing		4	Calibration				
		Turning S	equence			Finish		Out of S	Sequence				
		Wave/Tw	ist in Tuk	10	Г	Folio		Outside	Dimensions				

Work Order ID 97560

\*97560\*

Page 3

February-21-13 2:57:43 PM

Item	ID:
Item	ID:

D4021-7

Accept

\*N900040100\*

Setup Start

**Revision ID:** 

**Start Date:** 

Item Name:

Required Date: 2/25/13

Hoop 2/25/13

Start Qty: 2.00 Req'd Qty: 2.00

Operation

Date:

**Cust Item ID:** 

**Customer:** 

Reference:

**Approvals:** 

**Process Plan:** 

Date:

Tooling:

Date:

Run

Stop

QC:

SPC (Y/N):

Date:

Sequence ID/ **Work Center ID** 

150

Description Identify as per dwg & Stock Location: WH

Set Up/

**Run Hours** 0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject

Insp.

\*150\*

Packaging Packaging

Memo

0.00

Reject

Number Stamp

160

QC Quality Control QC21- Final Inspection - Work Order Release

0.00

\*160\*

Memo

0.00

MLJ 13-03-20

NCR:	Yes	1	No
NUT.	162	/	1110

## **WORK ORDER NON-CONFORMANCE / UPDATE**

DQA: \_\_\_\_\_Date: \_\_\_\_\_

NCR: Y	es / No				WORK ORDER WON-	CONFOR	WANCE / OF		QA Closed:	Date	:
Work Orde	·r·				DISPOSITION			AGAINST DE	PARTMENT	/PROCESS	
Part N					Rework Scrap	]	Skid-tube Machining	Crosstube Small Fab	Pro	Water Jet d. Eng. Coor.	Engineering Quality
NCR N					Use-as-is Work Order Update	Ther	moforming Large Fab	Finishing Composite	Rec/Stor	re/Packaging Supplier	Other
Root				Descri	iption of work order update	Initial	Ac	tion	Sign &		
Cause	Date	Step	Qty		or Non-conformance	Chief Eng	Desc	ription	Date	Verification	QC Inspector
Doc/Data											
Equip/Tooling					•					٠	
Operator	_										
Material											
Setup											
Other	_				•						
Process	_										
Supplier	_										
Training											
Unapproved		<u> </u>				<u> </u>			1		
		·				AULT CAT	EGORY				
Landir r	ng Gear			_	General □ .	□ <sub>1</sub> .		<u> </u>	<b>1</b>	Г	7. (5. (
	Bending				Bend	Grain		ļ	Ovalized	<u> </u>	Pressure/Forced
ļ	Centre No	ot Conce	ntric to (	o/s	BOM/Route	Hardw		-	Over/Under	<b>⊢</b>	Temperature/Cure Weld
-	Cracks			-	Broken/Damaged	<b>—</b>	tion Incomplete	,, , <u> </u>	Part Incorre	ļ <del></del> -	
ŀ	Crushed/	Crimped.			Burrs	<b></b>	ctions Incomplete	'Unclear	Part Lost/M		Wrong Stock Pulled
}	Cuffs				Contamination	<del></del>	enance	-	Part Moved		
}	Heat Trea			-	Countersink	Mislat		ļ	Positioned \		Other
}	Inspectio	•	Tube	-	Cut Too Short	Misre		<u>L</u>	Power Loss,	Surge [	Other
}	Ripples in			_	Drill Holes	Offset					
}	Torque W			n	Drawing	$\vdash$	Calibration				
-	Turning S	•		-	Finish	<del></del>	Sequence				
ì	Wave/Tw	ist in Tul	oe e	1	Folio	Uutsic	le Dimensions				

February-21-13 2:57:43 PM

Work Order ID:

97560

Parent Item:

D4021-7

Parent Item Name:

Hoop

**Start Date: 2/25/13** 

Required Date: 2/25/13

Start Qty: 2.00

Required Qty: 2.00

Comments:

IPP RevA: new issue DD 09.11.25 verified by:EC

IPP Rev:B as per dwg REV.A DD

10.02.22 verified by:EC IPP Rev:C as per dwg revB DD 10.04.20 verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304B0.625X3.000		Purchased	No			100	f	16.9167	0.4166	<u>₹0.877052</u>	<del>6</del>	10.00	201
304 BAR .625 X 3.00				Location		Loc Oty	<u>Lo</u>	c Code	(I)	3.5082	1104	13.03	701
				MAT049		16.9167			<del></del>				
				123	097	4							
				123	721	12.9167							

												DQA:	Da <sup>-</sup>	te: _	
NCR:	Yes	/ No				WORK ORDER NON-C	O	NFORM	ANCE / UPD	DATE		_	_		
		•							-		QA	Closed:	Da	te:	
Work Ord	or:					DISPOSITION				AGAINST DE	PAR	TMENT/	PROCESS		
WOIK OIU	e1.		1 1 2 200			Rework	1		Skid-tube	Crosstube	1		Water Jet		Engineering
Part I	Vo.					Scrap			Machining	Small Fab	1	Prod	d. Eng. Coor.		Quality
			-			Use-as-is		1	noforming	Finishing	l R	Rec/Stor	e/Packaging		Other
NCR	No.					Work Order Update			Large Fab	Composite	]		Supplier		
			,				لــا					<del></del>	· · · · · · · · · · · · · · · · · · ·		
Root					4	ption of work order update	1	nitial	Acti		1	gn &			
Cause		Date	Step	Qty	(	or Non-conformance	Ch	ief Eng	Descr	iption	] [	Date	Verificatio	n	QC Inspector
Doc/Data				!											
Equip/Tooling													•		
Operator															
Material				·							}				
Setup					,							ĺ			
Other					٠,										·
Process			1	4											
Supplier															
Training															
Unapproved	L										<u> </u>				
						F.	AUL	T CATE	GORY						·
Land	ing (	Gear				General	_	,		_	7				1 .
		Bending				Bend	<u></u>	Grain			<b>⊣</b> i	lized		L	Pressure/Forced
		Centre No	ot Conce	ntric to	O/S	BOM/Route	_	Hardwa	re		Ove	r/Under	tolerance	<u></u>	Temperature/Cure
		Cracks				Broken/Damaged		4 '	ion Incomplete	L	4	t Incorrec			Weld
		Crushed/	Crimped.			Burrs		Instruct	ions Incomplete/U	Jnclear	-1	t Lost/Mi	ssing		Wrong Stock Pulled
		Cuffs			<u> </u>	Contamination		Mainte	enance		Part	t Moved			
		Heat Trea	at			Countersink		Mislabe	eled		Pos	itioned V	Vrong		-
		Inspectio	n Strip in	Tube		Cut Too Short		Misread	t		Pov	ver Loss/	Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

DART AEROSPACE LTD	Work Order:	97560
Description: Hoop	Part Number:	D4021-7
Inspection Dwg: D4021 Rev: B		Page 1 of 1

## FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.194	+0.005/-0.001	0.194	V		vern	MW-01
1.38	+/-0.030	1.377	V		ulra	
2.25	+/-0.030	2.25	$\checkmark$		verv	
5.00	+/-0.030	4.986	/		VWV	
0.813	+/-0.010	0.812	<b>V</b>		VerN	
2.500	+/-0.010	2.500	$\checkmark$		VerN	
2.56	+/-0.030	2.558	$\sqrt{}$		VIVIV	
0.63	+0.000/-0.050	0.621	V		VerN	
· · · · · · · · · · · · · · · · · · ·						
						1.0
		·				

Measured by:	Mal	Audited by:	27	Preliminary Approval:	N/A	
Date:	13.03.09	Date:	13 7 11	Date:	N/A	

Re	v Date	Change	Revised by	Approved
Α	10.04.01	New Issue	KJ	1.1
В	10.08.18	Dimensions revised per Dwg Rev B	KJ K	- <b>A</b> A
				hades.





